## SOIL CONSERVATION

Index

**VOLUME XV** 

August 1949 to July 1950



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1951

US.8 S58s V.15 Ag 49-Jy50







## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

## SOIL CONSERVATION—INDEX TO VOLUME XV

August 1949 to July 1950

Page	Lago
"Absorption bank," use by Australians.	Baltz, Mary, little girl in man-size job 8-10
William A. Albrecht 182-184	Bankers, support of sound soils management 149-151
Adams, A. B., leadership 147-149	Barkley, Alben, Vice President, address 43
Agriculture, fitting to rainfall. C. W. Thornth-	BARTELLI, LINDO J.: Michigan Groups Build for
waite 71-72	Tomorrow. With Robert W. George 184-186
Air survey by Future Farmers of America. Tom	BEAUMONT, ARTHUR B.: Garden Soils; Their Use
Daniel 179-180	and Conservation. Review by W. W. Reitz 40
Airplane seeding of sand lovegrass. A. J. Long-	Beaver colony, operations 44-45
ley and M. D. Atkins 258-260	Beef gains on Ladino and orchardgrass 238
ALBRECHT, WILLIAM A.: The Australians Use an	Beetles, pine, control224-226
"Absorption Bank" 182-184	Bell Canyon Irrigation Co 205-206
Alfalfa—	Benches, building and utilization 214
feeding to hogs in New Mexico 96	Bennett, Hugh—
for west Texas 160, 162	Honor award 33
ALFANI, AUGUSTO: Italy's Major Land Problem,	Modern Soil Conservation 48
Part II. With Hugh G. Calkins 14-20	People Working Together 128-131, 141
Alkali land, reclamation 46	Review of Possum Trot Farm 166
ALLAN, PHILIP F.: How Good Fishing Came to	The Hills Are Falling Down 267-272
Buffalo Lake 86-88	BENNETT, WALLACE F.: American Industry and
ALLEN, DURWARD L.: Review of Bobwhites on	the Land 75-76
the Rise 166	Bermuda-grass-
Annual Conference on Conservation, Nutrition,	pasture 190-191
and Health70-72, 91-92	sprig planter 213
Annual Soil Conservation Week, Georgia 142	Bluestem seed, cleaning 213
Aquifers, classes68	
Artist on land. Ray W. Jones 35–36	Bobst, H. G.: High-Velocity Outlet Channels 126-128 Bobwhites on the Rise. Verne E. Davison.
Ashes to grass. Thomas I. Wilson 36–39	
ATKINS, M. D.—	Review by Durward L. Allen 166 Boddy, Herbert: The Lompoc Valley Responds
Airplane Seeding of Sand Lovegrass. With	to Irrigation 234-237
A. J. Longley 258–280	
Sand Lovegrass Makes a Come-Back. With	monthly transfer and an arrange for a contract of the contract
	and the second s
A. J. Longley138-141 Australia, use of "absorption bank." William A.	Boys—
	grass identification 200-202
Albrecht 182–184	vocational agriculture training 280-281
Awards. See Honor awards.	Bradley, Ben O.: Wildlife Management
AYCOCK, S. RAY: Decade of High Achievement 118	Through Districts in New York 134-135
D W. D W.	Briggs, William: Winning Slogans 263
BAILEY, RICHMOND Y.—	BRINK, WELLINGTON-
Pastures. With R. R. Lancaster, Edwin	This Farm Pond Stopped a Fire 246-247
James, and R. R. Harris. Review unsigned_ 239	Water importance and conservation [50]
Pioneering in Grass 171-173, 174	Water Took Spotlight in Ohio 70
BAKER, MARY FRANCIS: Florida Wild Flowers.	
Review by C. B. Blickensderfer 40-41	Divinegram Pasture-
BALLARD, ROY E.:	Brown, Grover F.: Strip Mining and Land
The Soil Is Darker—Yields Are Up 163-165	Restoration107-109
Vo-Ag Boys Get Down-to-Earth Training_ 280-281	Brown, John M., honor award 93

Page
Brush—
clearance for pasture96
piling for erosion control 202
Buffalo Lake, good fishing. Philip F. Allan 86-88
Buffalo Rapids Project227-229
Buil, T. S.: From Fox Hole to Farm 203-204
Bull, A. D., invention of infiltrometer 191
Bulldozer operator, district, bonus [2]
Buttonclover, another great new plant.  Barrington King 276-277, 279
Calendar, conservation. Dudley T. Mann [74]
California, southern, teamwork. Lee O. Hunt
CALKINS, HUGH G.: Italy's Major Land Prob-
lem. Part II. With Augusto Alfani 14-20
Camp project, FFA-FHA 211
Canal linings, tests in field. C. W. Lauritzen
and O. W. Israelsen 80-82, 89
Case, J. M.: His Trees Have Room to Grow. 257-258
Case-Wheeler Act, provision227
Casselman, Bill, dynamic, of Colorado. Norris A.
Jackson278-279
Centers, agricultural, benefits211
Channels, high-velocity, outlet. H. G. Bobst. 126-128
Children—
camp 211
conservation demonstrations 284, 286
education 24, 143, 206
exhibit contest45
4-H project 31-33
friends of the soil83-84
CHRIST, J. H.: Soil Conservation in the Land of
the Lei 3-6
Christmas tree seedlings, nursery 173-174
Churches thrifty as land prospers 237
Cities, dependence upon farming 43
Clover-
yellow-blossom, value 253-254
See also Buttonclover; Legumes.
Coal mining, strip, and land restoration.
Grover F. Brown 107-109
Colorado
districts, contest between 104-106, 109
irrigated pastures, experience with. R. H.
Searway 115-116
northeastern, grass magic. Jim Wil-
son248-250, 261
watershed districts279 Community irrigation system24
Community irrigation system 24
Concrete linings for irrigation canals 81-82
Conference
at Lake Success6, 116
field-irrigation 100-101
Conference on Conservation, Nutrition, and
Health, Athens70
Conservation—
contests
cooperation of tenants27-28
decade of achievement118

	D-2014	n
Conservation—Continued	The state of the s	Page
field day, registration cards	Solding	213
modern. Hugh Bennett	6100	48
planning, cooperation		44
publicizing—		
Alabama		93
bills of power company		30
Florida		206
Michigan		189
Minnesota		94
Ohio		94
Palouse		268
South Dakota		285
Texas	186,	211
relation to churches		237
results		45
seen from highway		90
soil, in land of Lei. J. H. C.	hrist	3-6
study, high school		24
water supply. C. P. Starr		
work, lines, marking by cher		262
Construction features, indicati		
sprays		262
Contests—		
annual conservation, Denver		
station		
conservation, coordinated pro		95
conservation trophy		285
essay		
father-son		
Goodyear Tire and Rubber C		
grass identification		
grass judging. E. B. Keng_		95
in Puerto Rico		187
Negro students		239
plow terrace		
plowing		216
school exhibit		45
school, seven years of. Ha	rley A Daniel	10
. Louis E. Derr, and Edd Ro		111
slogan	189.	263
sportsmen's clubs		264
waterways		213
contour lines, marking by chem		262
contouring—		
daffodils		287
flowers		287
grain, profits		283
orchards in Michigan. Jerry		
potatoes		181
cooperation—		
camp		211
conferring honor awards		245
conservation-		
in Michigan	184-	186
planning		44
publicizing		285
ditching		42

	Page
Cooperation— inued equipment proling	170
equipment use[26],	46 47 995
farm face lifting [120],	10, 41, 200
4-H Club work	
GI students	
grass seed	
in work, neighbor groups 1	
irrigation 24, 1	
land distribution	
newspaper	
pastures in Washingtonpine beetle control	
reclamation of alkali land	AP
"Save Our Soil" demonstration	
seed cleaning	
settling ponds, work	
study of unusual soil typetenants	
timber cutting	
tours for school classes	
trenching machines	
use of dragline	
winter-grazing demonstration	
COPE, CHANNING: Front Porch Farmer. Re	
by Verna C. Mohagen	
Corn fertilizer experiments	
Cornwall of Washington, district pr	
W. L. Southworth	
Cotton—	
hulls, use for percolation	58-59, 66
root rot, occurrence and control	
Cottonwood Ditch Irrigation System, ren	ova-
tion	24
Cover crop, value of buttonclover	
Crops, new, for western Texas. Morrison	W.
Liston	160-161
	00=
Daffodils, conservation practices	287
Dairy—	000
farm profits	
production, Pinecrest Sanitarium Farm	
DANIEL, HARLEY A.: Seven Years of School ( tests. With Louis E. Derr and Edd Robert	
DANIEL, Tom: Future Farmers Make Air	Sur-
DANIEL, TOM: Future Farmers Make Air	Sur- 179–180
DANIEL, Tom: Future Farmers Make Air vey	Sur- 179–180 263
DANIEL, Tom: Future Farmers Make Air vey	Sur- 179–180 263 arle-
DANIEL, Tom: Future Farmers Make Air vey	Sur- 179–180 263 arle- 243–244
DANIEL, TOM: Future Farmers Make Air vey	Sur- 
DANIEL, TOM: Future Farmers Make Air vey	Sur- 179–180 263 arle- 243–244 Rise. 166
DANIEL, Tom: Future Farmers Make Air vey  Daughters of the Soil, plans  Davis, Waters S., Jr.; district profile. To ton A. Jenkins  DAVISON, VERNE E.: Bobwhites on the Review by Durward L. Allen  Decade of high achievement. S. Ray Aycoo	Sur
DANIEL, TOM: Future Farmers Make Air vey	Sur 179–180 263 arle 243–244 Rise 166 ek 118 143
DANIEL, TOM: Future Farmers Make Air vey	Sur
DANIEL, TOM: Future Farmers Make Air vey	Sur- 
DANIEL, TOM: Future Farmers Make Air vey	Sur 179-180 263 urle 243-244 dise 166 ek. 118 143 ests 110-111 213-214
DANIEL, TOM: Future Farmers Make Air vey	Sur 179-180 263 urle 243-244 dise 166 ek. 118 143 ests 110-111 213-214
DANIEL, TOM: Future Farmers Make Air vey	Sur 179-180 263 urle 243-244 dise 166 ek. 118 143 ests 110-111 213-214

	Pag
Drainage—Continued dairy farm in Connecticut	
dairy farm in Connecticut	11
practices, North Dakota	IT
tile	
Drainageways, planned	24, 4
Drains—	
cooperative construction	45
6,500 feet	42
Drought control in New England 2	12, 214, 214
DWYER, CARROLL H.: Pasture on Display.	With
Arthur E. Miller	123-12
EAMES, HUGH F.—	
District Profile: Ritter of Massachusetts	152, 160
Little Girl in Man-Size Job	
Education—	
children 24, 83-	-84 143 206
conservation, in New York	
vocational agriculture	
Engineering, agriculture, at Oregon State	
lege	96
England—	
soil conservation	
strip-coal mining areas, restoration	107-106
Equipment—	
cooperative use	
costs	
pooling by vets	
use, cooperative	[26], 46, 47
Erosion—	
and production for four cropping systems.	257
control, cost vs. cost of not controlling	271-272
in the Palouse	267-272
less stream-bank, more pheasants and q	uail.
A. J. Webber	
on mountain pastures in Italy. W. T. Whi	te 230-232
snow-melt, control	
Everybody wins. Laurence T. Small	
Experts, ours, welcome by Southern Rhod	
E. Guillan Hopper	
E. Guman Hopper	11-110, 100
The Property of the Control of the C	011
FFA-FHA Foundation, Inc., contributions_	211
Farm—	00 401 0
face-lifting 20-22, 118, [122], 141, 1	
from fox hole. T. S. Buie	
green and profitable, making. Cal L. Roar	k_ 209-210
Indiana, seven generations on. R. H.	
ser	219-221
on all-day television show. Bill Givens	111-112
ownership job, seven "sees"	
plan, one day or five years. Austin L. Patr	rick_ 20-22
rebuilding in—	
five years, Maryland	20-21
one day, Maryland	20, 21-22
one day, Michigan	194.198
one day, West Virginia	190
run-down, remaking-	000 010
	209-210
New Jersey 142, 143-14	14, 163–165
South Carolina	153-156

Page	Page
Farm—Continued	Fox hole to farm. T. S. Buie 203-204
run-down, remaking—Continued	Friends of the Land—
Texas251-254	conference at Athens 70-72, 91-92
West Virginia 122, 141	essay contest95
salvage in Piedmont. Cal L. Roark 153-156	Front Porch Farmer. Review by Verna C.
transformation by vet. James E. Wright 233-234	Mohagen 90-91
wood crops. John F. Preston. Review by	Furniture, fine, from waste-wood. Glenn K.
Stanley S. Locke 261-262	Rule 281-282
Farm Safety Week 284	Future Farmers of America, air surveys. Tom
Farmer, front porch. Review by Verna C.	Daniel 179-180
Mohagen 90-91	
Farms—	Garden soils, use and conservation. Review by
model, school contest45	W. W. Reitz40
run-down, remaking-	Gardner, E. S., of Utah, district profile. A. J.
Massachusetts 43	Webber 125-126
Washington 77-78	Gas lease on reforested lands, restriction 133
two, tale of. J. M. Parks 39-40	GEORGE, ROBERT W.: Michigan Groups Build for
Fences of multiflora rose 142	Tomorrow. With Lindo J. Bartelli 184-186
Fertility, improved, cause of reduction of soil	Gin waste, use for percolation 58-59, 66
and water losses. Dwight D. Smith 254-257	Girl, little, in man-size job. Hugh F. Eames 8-10
Fescue—	GIVENS, BILL: Farm on All-Day Television
and white clover, value [98]	Show111-112
for lawns 144	Grass-
palatability for wild turkeys 245	from ashes. Thomas I. Wilson 36-39
value in Georgia 187	magic in northeastern Colorado. Jim
Fiberglas, butyl-coated, linings for irrigation	Wilson 248-250, 261
canals 81-82	mixtures, effectiveness, comparison 38
FINNELL, H. H.: Conservation as Seen From	nurseries in Texas 167
the Highway 90	pioneering in. R. Y. Bailey 171-173, 174
Fire—	seed, good business 190
control from farm pond. Wellington Brink 246-247	seeding in New Mexico
protection from farm ponds[2], 116, 202, 229, 239	Grass-legume mixtures in rotation 119
Fishing, good, Buffalo Lake. Philip F. Allan 86-88	Grasses—
Flood control—	importance in Texas 168
measures144	learning by young ranchers. Simon E.
use of willows 186	Wolff 200-202
Flora and fauna, determination by water. H. L.	specialized uses in northeast Colorado 250
Shantz 72	Grassland, protection 119
Florida, south, grass pioneering 171-173, 174	Ground water. See Water, ground.
Flowers	Group work—
conservation nursery 287	in Washington State 123-125
contouring115	research station212
gardens, conservation practices 45-46	
wild, of Florida. Mary Francis Baker. Review	Groups— Michigan building for tomorrow Robert W
by C. B. Blickensderfer 40-41	Michigan, building for tomorrow. Robert W.
Flying Farmers—	George and Lindo J. Bartelli 184-186
of Florida	neighbor, working together 128-131, 141
of New York 143	Guar, value251-252
Fogle, Pearl: Appeal to the Ear 94	"Guide to Safe Land Use and Treatment," use 44 Gullies, grading and seeding 47
Forest, southern farm, management 257-258	
Forestry practices285	Gully, study by science. Russell Woodburn_ 11-13, 22
Forever the Land. Russell and Kate Lord.	
Review by Glenn K. Rule 261	HALL, LEONARD: Possum Trot Farm. Review
FORSBERG, CARL M.: Artificial Rain Makes Vine-	by Hugh Bennett 168
yard Thrive. With Herbert A. Hopper 195-198	HABKIN, WILLIAM A.: They Found Security on
4-H Club-	Irrigated Land 227-229
members, honor awards 192, 201-202	HARNESS, JOHN R., JR. The Mystery of Trace
project. G. I. Noble 31-33	Elements 282-283
Fox, Adrian C., honor award 287	HARRIS, ROLAND R.: Pastures. With R. Y.
Fox, LESTER: These Youngsters Made Friends	Bailey, R. R. Lancaster, and Edwin James.
with the Soil83-84	Review unsigned239

Page Irrigation—Continued
Irrigation—Continued research 99-101, 103
response of Lompoc Valley to. Herbert
Boddy234-237
role. Allan McCulloch 92
system, overhead 116
with ground water56-58
ISRAELSEN, O. W.: Canal Linings Tested in Field.
With C. W. Lauritzen 80-82, 89
Italy—
major land problem. Part II. Augusto Alfani
and Hugh G. Calkins14-20
mountain pastures, erosion. W. T. White 230-232
Jackson, Norris A.: Colorado's Dynamic Bill Casselman 278-279
JAMES, EDWIN: Pastures. With R. Y. Bailey,
R. R. Lancaster, and R. R. Harris. Review
unsigned 239
JENKINS, TARLETON A.: District Profile: Davis of Texas243-244
JONES, RAY W.: Artist on the Land 35-36
Kansas, sand lovegrass come-back 138-141
Keng, E. B.: They Knew Grasses
Kentucky 31. See Fescue.
KING, BARRINGTON: Buttonclover, Another of the
Great New Plants 276-277, 279
Kiwanians, silt prevention 287
Koehler, Gerhard, honor award 253
Koreans, study of agriculture 216
KRIEGER, JERRY: Contouring Saved These Michi-
gan Orchards 175-176
Kudzu, value 44
Labor, maintenance, irrigation system, reduc-
tion 46-47
Laboratory, farm 117
LAMBETH, W. O.: District Profile: Poole of North
Carolina 198-199
LANCASTER, ROBERT R.: Pastures. With R. Y.
Bailey, Edwin James, and R. R. Harris. Re-
view unsigned 239
Land—
abandoned, conversion to pasture 142
alkali, reclamation46
burned-over forest, grass on 36-39
desert, reclamation218
forever. Russell and Kate Lord. Review by
Glenn K. Rule 261
irrigated, security on. William A. Harkin 227-229
leveling for rice growing 78–79, 92
loosening after heavy machinery 120

prosperity, effect on churches 237
restoration after coal mining 107-109
sand-dune, seeding by airplane 258-260
submarginal, profit 285
Lands, reforested, gas lease provision 133
LAURITZEN, C. W.: Canal Linings Tested in Field.

With O. W. Israelsen\_\_\_\_\_\_ 80-82, 89

HATCH, SUMNER: Where Water Is Precious	. 10
Hawaiian Islands, soil conservation	. 3-
HESTER, JACKSON B.: Moisture, Fertilizer Plants	9
Plants	. 7
Hicks, Grover and Mrs., honor award.	. 20
High-velocity outlet channels. H. G. Bobst 1	26-12
Hills falling down. H. H. Bennett 2	267-27
Homesteads, abandonment, relation to church	23
Honor awards—	
for.	
good district administration2	244_94
	4
to-	30
John and Gottfried Bahler1	50 1K
Hugh Bennett	
John M. Brown	. 84
employees of Soil Conservation Serviceessay contestants	
essay contestants	158
farmer-helpers	118
4-H Club 192, 2	
Adrian C. Fox	287
Grover and Mrs. Hicks	207
Gerhard Koehler	253
Richard M. May	264
prominent conservationists	
Wilfred M. Schutz 1	58-160
Sodus Rod and Gun Club	264
Texas conservationists	23
HOPPER, E. GUILLAN: Southern Rhodesia Wel-	
comes Our Experts 177-17	
HOPPER, HERBERT A.: Artificial Rain Makes a	0, 100
Vineyard Thrive. With Carl M. Forsberg 1	95_196
HUNT, LEE A.: Teamwork Wins in Southern	00 100
California 95	2_226
California2	23-226
daho State Soil Conservation Auxiliary income, rise, as farm mends. W. M. Nixon 2	
daho State Soil Conservation Auxiliary income, rise, as farm mends. W. M. Nixon 2: indiana farm. seven generations on. R. H.	262 51–254
daho State Soil Conservation Auxiliary2 income, rise, as farm mends. W. M. Nixon 2: indiana farm, seven generations on. R. H. Musser 2:	262 51-254 19-221
daho State Soil Conservation Auxiliary2ncome, rise, as farm mends. W. M. Nixon 2ndiana farm, seven generations on. R. H. Musser 2ndustry, American, and the land. Wallace F.	262 51-254 19-221
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76
daho State Soil Conservation Auxiliaryncome, rise, as farm mends. W. M. Nixon 20 ndiana farm, seven generations on. R. H. Musser 20 ndustry, American, and the land. Wallace F. Bennett filtration study. Glenn K. Rule 58-59,	262 51-254 19-221 75-76 65-66
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66
daho State Soil Conservation Auxiliary ncome, rise, as farm mends. W. M. Nixon2 ndiana farm, seven generations on. R. H. Musser	262 51-254 19-221 75-76 65-66 191
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 27-229
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 27-229
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 27-229 82, 89 2, 143
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 27-229 82, 89 2, 143 119
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 27-229 82, 89 2, 143 119 46
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 27-229 82, 89 2, 143 119 46 7-168
daho State Soil Conservation Auxiliary         2           income, rise, as farm mends. W. M. Nixon         2           indiana farm, seven generations on. R. H.         Musser           musser         2           industry, American, and the land. Wallace F.         Bennett           infiltration study. Glenn K. Rule         58-59,           infiltrometer, use and construction         2           rrigated land, security on. William A. Harkin         22           rrigation         2           canals, lining         80-           from farm ponds         14           needs of roots         0           oats         0           orchard         16           overhead, vineyard         19	262 51-254 19-221 75-76 65-66 191 27-229 82, 89 2, 143 119 46 7-168
daho State Soil Conservation Auxiliary         2           ncome, rise, as farm mends. W. M. Nixon         2           ndiana farm, seven generations on. R. H.         2           musser         2           ndustry, American, and the land. Wallace F.         8           Bennett         58-59,           nfiltration study. Glenn K. Rule         58-59,           nfiltrometer, use and construction         2           rrigated land, security on. William A. Harkin         22           rrigation—         2           canals, lining         80-           from farm ponds         14           needs of roots         0           oats         0           orchard         16           overhead, vineyard         19           pastures         19	262 51-254 19-221 75-76 65-66 191 27-229 82, 89 2, 143 119 46 7-168 5-198
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 27-229 82, 89 2, 143 119 46 7-168 5-198
daho State Soil Conservation Auxiliary	262 19-221 75-76 65-66 191 27-229 82, 89 2, 143 119 46 7-168 5-198 5-116 215
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 77-229 82, 89 2, 143 119 46 7-168 5-116 215 22, 215
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 77-229 82, 89 46 77-168 5-198 5-116 215 215 214
daho State Soil Conservation Auxiliary	262 51-254 19-221 75-76 65-66 191 77-229 82, 89 46 77-168 5-116 215 215 214 84-86

practices in Nevada. Sumner Hatch\_\_\_\_\_ 187

Page

	Page
Lay-out markings by chemical sprays	262
Leader, strong, out of rich soil. Mary Webster. 14'	7-149
Lease—	
clause requiring conservation	42
gas, on reforested lands, provision	133
Legumes, planting increase	238
Lei, Land of, soil conservation. J. H. Christ	3-6
Life, dependence on water. Daniel L. Seck- inger	51–53
LISTON, MORRISON W.: New Crops for Western	
Texas160	<b>-162</b>
LOCKE, STANLEY, S.: Review of Farm Wood	
Crops 26	1-262
Lompoc Valley, response to irrigation. Herbert Boddy23	L-237
LONGLEY, A. J.—	
Airplane Seeding of Sand Lovegrass. With	
M. D. Atkins 258	-260
Sand Lovegrass Makes a Come-Back. With	
M. D. Atkins 138	-141
LORD, RUSSELL and KATE: Forever the Land.	
Review by Glenn K. Rule	261
Losses, soil and water, reduced by improved	
fertility. Dwight D. Smith254	-257
Lovegrass—	
sand—	
airplane seeding. A. J. Longley and M. D.	
Atkins 258	-260
come-back in Kansas. M. D. Atkins and A. J.	
Longley 138	
in northeast Colorado 249-250	
weeping, double duty in New Mexico 9	5-96
MANN, DUDLEY T.: Conservation Calendar	[74]
Map, ground-water, of U. S5	[74] 6–57
Map, ground-water, of U. S 5 Mapping case, cylindrical 5	[74]
Map, ground-water, of U. S5 Mapping case, cylindrical5 Maris, Paul V.: Planning That Pays. Review	[74] 6–57 264
Map, ground-water, of U. S	[74] 6–57
Map, ground-water, of U. S5 Mapping case, cylindrical Maris, Paul V.: Planning That Pays. Review unsigned Markham, David H.: Pastures Respond to Good	[74] 6–57 264 192
Map, ground-water, of U. S5 Mapping case, cylindrical Maris, Paul V.: Planning That Pays. Review unsigned Markham, David H.: Pastures Respond to Good Soil190	[74] 6–57 264 192
Map, ground-water, of U. S	[74] 6–57 264 192 –191
Map, ground-water, of U. S	[74] 6–57 264 192 –191
Map, ground-water, of U. S	[74] 6–57 264 192 –191 135 264
Map, ground-water, of U. S	[74] 6-57 264 192 -191 135 264 92
Map, ground-water, of U. S	[74] 6–57 264 192 –191 135 264
Mapping case, cylindrical	[74] 6-57 264 192 -191 135 264 92
Map, ground-water, of U. S	[74] 6–57 264 192 –191 135 264 92 42
Map, ground-water, of U. S	[74] 6–57 264 192 –191 135 264 92 42
Mapping case, cylindrical  Mapping case, cylindrical  Mars, Paul V.: Planning That Pays. Review unsigned  Markham, David H.: Pastures Respond to Good Soil  Massachusetts, regulations re. removal of topsoil  May, Richard M., honor award  McCulloch, Allan: Irrigation's Role  Meadow, eroded, remaking  Michigan—  groups, building for tomorrow. Robert W.  George and Lindo J. Bartelli  184  orchards, contouring. Jerry Krieger  175	[74] 6–57 264 192 –191 135 264 92 42
Mapping case, cylindrical  Mapping case, cylindrical  Mars, Paul V.: Planning That Pays. Review unsigned  Markham, David H.: Pastures Respond to Good Soil  190  Massachusetts, regulations re. removal of topsoil  May, Richard M., honor award  McCulloch, Allan: Irrigation's Role  Meadow, eroded, remaking  Michigan  groups, building for tomorrow. Robert W.  George and Lindo J. Bartelli  184  orchards, contouring. Jerry Krieger  175  Midwest Claypan Soil Conservation Experiment	[74] 6–57 264 192 –191 135 264 92 42 –186 –176
Mapping case, cylindrical	[74] 6–57 264 192 –191 135 264 92 42 –186 –176
Mapping case, cylindrical	[74] 6–57 264 192 –191 135 264 92 42 –186 –176
Mapping case, cylindrical  Mapping case, cylindrical  Mars, Paul V.: Planning That Pays. Review unsigned  Markham, David H.: Pastures Respond to Good Soil	[74] 6–57 264 192 –191 135 264 92 42 –186 –176 –257 –174
Mapping case, cylindrical  Mapping case, cylindrical  Mars, Paul V.: Planning That Pays. Review unsigned  Markham, David H.: Pastures Respond to Good Soil	[74] 6–57 264 192 –191 135 264 92 42 –186 –176 –257 –174
Mapping case, cylindrical  Mapping case, cylindrical  Mars, Paul V.: Planning That Pays. Review unsigned  Markham, David H.: Pastures Respond to Good Soil	[74] 6–57 264 192 –191 135 264 92 42 –186 –176 –257 –174
Mapping case, cylindrical  Mapping case, cylindrical  Mars, Paul V.: Planning That Pays. Review unsigned  Markham, David H.: Pastures Respond to Good Soil  Massachusetts, regulations re. removal of topsoil  May, Richard M., honor award  McCulloch, Allan: Irrigation's Role  Meadow, eroded, remaking  Michigan—  groups, building for tomorrow. Robert W.  George and Lindo J. Bartelli  184  orchards, contouring. Jerry Krieger  175  Midwest Claypan Soil Conservation Experiment  Farm, work  254  MILES, VERNAL C.: Potter District Nursery  173  MILLER, ARTHUR E.: Pasture on Display. With  Carroll H. Dwyer  Mining, strip, and land restoration. Grover F.  Brown  107	[74] 6–57 264 192 –191 135 264 92 42 –186 –176 –257 –174
Mapping case, cylindrical  Mapping case, cylindrical  Mars, Paul V.: Planning That Pays. Review unsigned.  Markham, David H.: Pastures Respond to Good Soil	[74] 6–57 264 192 –191 135 264 92 42 –186 –176 –257 –174 –125 –109
Mapping case, cylindrical  Mapping case, cylindrical  Mars, Paul V.: Planning That Pays. Review unsigned  Markham, David H.: Pastures Respond to Good Soil  Massachusetts, regulations re. removal of topsoil  May, Richard M., honor award  McCulloch, Allan: Irrigation's Role  Meadow, eroded, remaking  Michigan—  groups, building for tomorrow. Robert W.  George and Lindo J. Bartelli  184  orchards, contouring. Jerry Krieger  175  Midwest Claypan Soil Conservation Experiment  Farm, work  254  MILES, VERNAL C.: Potter District Nursery  173  MILLER, ARTHUR E.: Pasture on Display. With  Carroll H. Dwyer  Mining, strip, and land restoration. Grover F.  Brown  107	[74] 6–57 264 192 –191 135 264 92 42 –186 –176 –257 –174 –125 –109

Page
Moisture, fertilizer, plants. Jackson B. Hester. 72
Muck, use for pasture 117
Mulch with sawdust and shavings 214
Munns, E. N.: Watershed Management Prob- lems91-92
Musical composition, "Erosion" 94
Musser, R. H.: Seven Generations on an Indiana
Farm 219-221
Nail It Down Club 263
National Association of Manufacturers, conser-
vation work 75-76
National Plow Terrace Contest23-24
National Soil Conservation Field Day and
Contour Plowing Match 216
Nebraska Conservation Foundation, Inc., work 149-151
Nebraska lad, contest winner 158-160
Negro students, contest239
New Mexico, legislation24
New York, wildlife management through dis-
tricts. Ben O. Bradley 134-135
Newspaper—
cooperation211
new monthly [146]
NIXON, W. M.—
Income Rises as the Farm Mends 251-254
Pasture Rotations in the Rice Belt 88-89
NOBLE, G. I.: 4-H Project 31-33
Nursery—
flowers 287
Potter district. Vernal C. Miles 173-174
Oats, irrigation 46
Orchards—
contouring in Michigan. Jerry Krieger 175-176
irrigation 167-168
Oregon, State College, agricultural engineering 96
Organic matter, returned 167
Palouse, erosion 267-272
Paper from sericea 118
PARKER, GABALD G.: Ground Water Situation of
the United States53-58
PARKS, J. M.: Tale of Two Farms 39-40
PARTRIDGE, RALPH: Districts Vie With Districts
in Silver State 104–106, 109
Pastures—
R. Y. Bailey, R. R. Lancaster, Edwin James,
and R. R. Harris. Review unsigned 239
benefits from irrigation 212
Bermuda-grass190-191
bromegrass
buttonclover, value 277
fescue and sericea 187
fescue-Ladino clover 44
green, contest winning 43, 156–157
green, from wet land 43
improved, costs and yields in Washington 124-125
improved results Raymond C Pesnell 207-208

Pa

Periode fair fish Process by

Page	Page
Pastures—Continued	Progress, marks of. J. W. Sargent 274-275
irrigated—	Puerto Rico—
drought control in Massachusetts 212	conservation activities187
from pond215	soil saving. Otto L. Pike 113-115
profits. A. J. Webber 84-86	Quail and pheasants, more, with less stream-
irrigation in Colorado. R. H. Searway 115-116	bank erosion. A. J. Webber 136-138
on display. Carroll H. Dwyer and Arthur E.	Dank Crosion. A. S. Webbet 100-100
Miller123-125 reed canary grass42	Radio, daily aid to conservation 206
	Rain, artificial, effect on vineyard. Herbert A.
	Hopper and Carl M. Forsberg 195-198
response to good soil. David H. Markham 190-191 rotations in rice belt. W. M. Nixon 88-89	Rainfall, fitting agriculture to. C. W.
PATRICK, AUSTIN L.—	Thornthwaite 71-72
One Day—or Five Years?20-22	Ranchers, young, learning about grasses.
Winter Planning With a Stereoscope 102-103	Simon E. Wolff 200-202
Peaches—	Reed canary grass pasture 42
irrigation in New York 116-117	Reforestation seedlings, nursery 173-174
on sandhill land	REITZ, W. W., review of Garden Soils: Their
People working together. Hugh Bennett_ 128-131, 141	Use and Conservation 40
PESNELL, RAYMOND C.: Higher Production, Lower	Reservoirs, underground68
Costs, From Improved Pastures 207–208	Rice-
Pheasants and quail, more, with less stream-	fields, smoothing. Delouis Soileau 78-79, 92
bank erosion. A. J. Webber 136-138	rotations88-89
Phosphate, benefits to cows.	Ritter, Ernest, of Massachusetts. Hugh F.
Piedmont farm, salvage. Cal L. Roark 153-156	Eames 152, 166
PIKE, OTTO L.: We're Saving Soil in Puerto	River bank reinforcement 186
Rico, Too113-115	ROARK, CAL L.—
Pine-	A Farm Is Salvaged in the Piedmont 153-156
beetle control 224-226	He Made His Farm Green and Profitable 209-210
conservation cutting 286	Roberts, Edd: Seven Years of School Contests.
region of southern California, cooperation 223-226	With Harley A. Daniel and Louis E. Derr_: 110-111
silvicultural practices 285, 286	Root systems, irrigation 119
Pinecrest Sanitarium Farm, production 222	Roses, contouring 115
Pioneering in grass. R. Y. Bailey 171-173, 174	Rotations, pasture, in rice belt. W. M. Nixon 88-89
Pittman-Robertson Act of 1937, operation 134-135	RULE, GLENN K.—
Plan or perish. J. Russell Smith 71	An Infiltration Study 58-59, 65-66
Planning that pays. Paul V. Maris. Review	Fine Furniture From Wastewood 281-282
unsigned 192	Review of Forever the Land 261
Planter—	Tenants Point Way 27-28
Bermuda-grass 213	Runoff—
grass-seed120	reduction by improved fertility 254-257
Plowing—	snow-melt, control 266
contest 216	Stand June land, seeding by simplane 959, 960
for control of snow-melt runoff [266]	Sand-dune land, seeding by airplane 258-260 Santa Clara Valley, vineyard, effect of artificial
Pond, pipe and fire hydrants 189	rain 195-198
Ponds-	SARGENT, J. W.: These Are Some of the Marks
farm—	of Progress 274-275
fire control. Wellington Brink 246-247	"Save Our Soil" demonstration in Colorado 120
fire protection [2], 117, 202, 229, 239	Sawdust mulch, value
in West Virginia 215	
irrigation from142-143	
fish—	
production 229	School contests, seven years. Harley A. Dan- iel, Louis E. Derr, and Edd Roberts 110-111
stocking202	Schutz, Wilfred M., honor award 158-160
Poole, J. Hawley, of North Carolina. W. O.	
Lambeth 198-199	Science, speeding to farm. William L. South-
Possum Trot Farm. Review by Hugh Bennett. 166	worth 90-101, 103
Potter District Nursery. Vernal C. Miles 173-174	SEARWAY, R. H.: Experience with Irrigated Pas-
	tures in Colorado 115-116
PRESTON, JOHN F.: Farm Wood Crops. Review	SECKINGER, DANIEL L.: All Life Depends on
by Stanley S. Locke 261-262	Water 51-53

Page

Stereoscope, winter planning with. Austin L.	e
Datrick 109 100	0
Patrick	0
fed by pond 230	
steel forms[218	
Stone, A. C., invention 213	-
Stoneboat, improved 42	
Stones, clearance	
Stream bank—	
erosion, less, more pheasants and quall.	
A. J. Webber 136-136	R
harnessing186	
protection for wildlife covers in Utah 136-136	
Strip mining and land restoration. Grover F.	•
Brown 107-106	9
Suiter's grass. See Fescue.	
Summers, Felix D., artist for conservation 35-36	3
Symbols for contractors, making by chemical	
sprays 262	2
TCA, use for marking lines 262	2
Table, inlaid wood, from waste 190	
Teamwork in southern California. Lee O.	
Hunt 223–226	
Television—	
broadcast, Miracle Soil Conservation Day 118	8
show, all-day, farm. Bill Givens 111-112	
Tenants—	
cooperation in conservation 27-28	1
point way. Glenn K. Rule 27-28	
Terraces—	
bench, work214	
building, record95	
demonstration 188	
for vegetables 189	
lines, marking by chemical sprays 262	
outlets, high-velocity 126-128	
profits212	
renovation39-40	
resistance to cloudburst 117-118	
use in Australia 182–184	
Texas, western, new crops. Morrison W.	
Liston 160-161	
THOBNTHWAITE, C. W.: Fitting Agriculture to	
Rainfall	
File drainage [194], 284	
Filing machine 42	
Fimber cutting, cooperative 28-30	
Topsoil removal regulations 135, 286	
Crace elements, mystery. John R. Harness,	
Jr	
Fraining, down-to-earth, of vocational agricul-	
ture boys. Roy E. Ballard 280-281	
Frees—	
planting 95, 263	
room to grow. J. M. Case257-258	
Frenching machines 43-44 Frough, watering	
fed by pond238	
steel forms[218]	
NAME AND ADDRESS OF THE PROPERTY OF THE PROPER	

Tun

Turl

U. N

Veto

fo

PH

co

eq

Vine

Voca

Was

Was

Wat

R

80

be

co

81

Wa

Wa

Wa

Wa

H

tr

Vete

T. alika	x age
Tung trees, cover crops 43	Webber, A. J.—
Turkeys, wild, pasture preference 245	District Profile: Gardner of Utah 125-126 Less Stream-Bank Erosion—More Pheasants
U. N. Scientific Conference on the Conservation	and Quail 136-138
and Utilization of Resources6, 116	Profits from Irrigated Pasture84-86
the contraction of the contraction of the	WEBSTER, MARY: Out of Rich Soil Springs a
Vetch-	Strong Leader 147-149
for west Texas 160-162	Wells, J. V. B.: Critical Shortages 72
runners, strength. Huey Whitehurst 95	Wheat—
Veterans—	program in New Mexico
conservation work 203, 237	smothering by erosion 267, 269
equipment pooling 176	Wheatgrass seed production 188
farm transformation. James E. Wright 233-234	Wheatgrasses in northeastern Colorado 248-250
Vineyard, effect of artificial rain. Herbert A.	White, W. T.: Erosion of Mountain Pastures in Italy230-232
Hopper and Carl M. Forsberg 195-198	WHITEHURST, HUEY: Vetch Stops Erosion, Too. 95
Vocational agriculture boys, down-to-earth training. Roy E. Ballard	Wildlife—
	covers, stream-bank, in Utah 136-138
Waste, gin, use for percolation 58-59, 66	management through districts in New York.
Wastewood, fine furniture from. Glenn K.	Ben O. Bradley 134-135
Rule 281-282	Willows, use in flood control 186
Water-	WILSON, JIM: Grass Magic in Northeastern Colo-
accounting. C. V. Youngquist 71	rado 248-250, 261
balance, disturbing 71	WILSON, THOMAS I.: Out of the Ashes Comes
conservation. See Conservation.	the Grass 36-39
dependence of all life. Daniel L. Seckinger 51-53	Winter— crop, buttonclover————————————————————————————————————
determination of flora and fauna72	crop, buttonclover277 grazing284
ground—	planning with a stereoscope. Austin L.
investigation, new techniques 55-58	Patrick 102-103
lifting 58, 65	Winterpeas, Austrian, for west Texas 160, 162
situation of United States. Gerald G.	Wire, steel, substitution for lath 23
Parker 53-58	WOLFF, SIMON E.: Young Ranchers Learn About
losses, reduced by improved fertility. Dwight D.	Grasses
Smith254-257	Wood-
measurements · 71	farm crops. Review by Stanley S. Locke 261-262
salt, encroachment 58	lot demonstration285
shortages, critical. J. V. B. Wells 72	lots, Jersey, teamwork. Glenn E. Smith 28-30
spotlight in Ohio. Wellington Brink 70	waste, fine furniture from. Glenn K. Rule_ 281-282
spreading for recharge—	WOODBURN, RUSSELL: Science Studies a Gully_ 11-13,
A. T. Mitchelson66-70	22
early attempts59	Woodland-
methods69-70	clearing for pasture215
supply conservation. C. P. Starr 205-206	improvement257-258
underground, tapping47	WRIGHT, JAMES E.: War Vet Transforms Farm. 233-
Waterfowl restoration 22	234
Watering trough. See Trough.	Wright, Silas L., of Idaho, district profile.
Watershed—	William L. Southworth 221-222
districts, Colorado 279	
management problems. E. N. Munns 91-92	Youngquist, C. V.: Water Accounting 71
Waterway construction contest 213	Youngsters, friends with the soil. Lester Fox 83-84
Webb, R. B., district profile. William L. South-	
worth 272-273	ZACHARY. J. W.: I Started from Scratch 132-133

